AMPIRE

Rear-Seat Entertainment

USER MANUAL

CCT800

Center Armrest Monitor

With MMD / USB / Rubber Skin

Contents

Operating Instructions
Welcome To DVS 2
Safety Instructions 2
CAUTION 2
WARNING 2
PRECAUTIONS 3

Getting Started
Monitor Function Overview 4
When Using the Remote Control 5
Remote Control Battery Replacement 5
Remote Control Function Overview 5

Basic Operations
Turning Power ON/OFF 7
Loading and Unloading Discs 7
Audio Mute Function 7
Adjusting the Volume 7
Switching the Source 7
Turning FM ON/OFF 8
Switching DVD / USB mode (DVD only) 8

MMD (Multimedia Driver) Operations
Playing DVD/ VCD/ CD 8
Disc Auto Play 8
Stopping Playback (PRE-STOP) 9
Stopping Playback 9
Fast-forwarding / Fast-reversing 9
Finding the Beginning of Chapters 9
Playing Still Frames (PAUSE) 9
Frame-By-Frame Playback 9
Switching the Audio Tracks 10
Chapter/ Track /Title Repeat Playback 10
Repeating the Display Period (A-B) 10
Switching the Angle (DVD Only) 10
Switching the Subtitles (DVD Only) 10
Using Number Key Pad 10
Displaying the Disc Status 11
Slow Motion Playback 11
Setting the Dimmer 11
Setting the Zoom 11
Setting the Random 11

USB Operations
Switching DVD / USB Mode (DVD Only) 12
Playable Files on this Unit 12
- MUSIC (MP3 / WMA) 12
- PHOTO (JPEG) 12
- MOVIE (AVI) 12

Monitor Setup
Adjusting Picture 13
- Adjusting the Bright 13
- Adjusting the Contrast 13
- Adjusting the Color Density (AV2/AV3 only) 14
- Adjusting the Tint (AV2/AV3 only) 14
- Setting Audio Mute ON/OFF 14
- Setting Audio CH 14
- Setting Mirror ON/OFF 15
- Setting Reverse ON/OFF 15
- Setting Language 15
- Resetting the Picture Adjustment 15
- Turning OFF Monitor Setting Menu 15

MMD Setup
DVD Setup Operation 16
System Setup 16
- Setting the TV System 16
- Setting Screen Saver 16
- Setting Screen Type 16
- Setting Password 17
- Setting the Rating Level 17
- Setting the Default 17

Language Setup 17
- Setting OSD Language 17
- Setting Audio Language 17
- Setting Subtitle Language 18
- Setting Menu Language 18

Audio Setup 18
- Setting Down Mix Mode 18
- Setting Dynamic Range 18
- Setting Down Sample 18

VGA Setup (Option)
Adjusting Picture 19
- Auto Config 19
- Adjusting the Brightness/ Contrast 19
- Adjusting the Color Phase 19
- Adjusting the Color 19
- Recalling to the Factory Default 20
- Turning OFF VGA Setting Menu 20

Wireless Headphone (Option)
Using Wireless Headphone 20
PRECAUTIONS 20
Headphone Receivers 21
IR (Infrared ray) Specification 21
Operation 21
Battery Installation 21

Installation and Connections
CAUTION 22
WARNING 22
PRECAUTIONS 22
Parts Indication 23
BMW'09 X5/X6 Installation 24
General Installation (Front installation) 25
General Installation (Back installation) 26
How to folding 27
Connections 28
System Connections 29

Information
Accessories 30
General Specifications 31
Trouble Shooting 32
Warranty 33
Warranty Card 34

Operating Instructions

Welcome to DVS

- Thanks for purchasing DVS Center Armrest Monitor with MMD / USB function. This manual will help you use the exactly features of your new monitor.
- Please read all safety and operating instructions in this manual carefully, and keep this manual for future reference.

Safety Instructions

Be sure to observe the following instructions and precautions to ensure safe using of this monitor. If you or other third parties use this product in a non-correctly way and cause the product breakdown or damage, as to law, there is no responsibility for compensation. DVS will not be responsible for it, please understanding.

⚠ CAUTION:

This symbol means "Please be sure to observe." Failure to heed them can result in injury or material property damage.

Do not repair, alter or disassemble by yourself.
Doing so may result in an accident, fire or electric shock. Consult a retailer or service technician for inspections and repairs, if maintenance is needed.

Halt use immediately if an unusual states appears.
Failure to do so may cause personal injury or damage to the product. Return it to your authorized dealer or nearest service center for repairing.

Keep fingers away while the motorized front panel or moving monitor is in motion.
Failure to do so may result in personal injury or damage to the product.

Do not strike or make this monitor drops strongly.
Doing so may result in personal injury or slash.

Do not leave the disc in the car or the unit for a long time.
Never expose the disc to direct sunlight. Heat and humidity may damage the disc and you may not be able to play it again.

⊘ WARNING:

This symbol means "Forbids this behavior." Failure to heed them can result in serious injury or death.

Do not operate any function that takes your attention away from safety driving your vehicles.
Any function that requires driver's prolonged attention should only be performed after coming to a complete stop. Always stop the vehicle in a safe location before performing these functions. Failure to do so may result in an accident.

Do not touch the screen when meet a strike strongly.
If liquid crystal touches hands, feet or clothes incautious, please wash with the neutral detergent or consult a physician if necessary.

Do not expose this monitor to high humidity levels.
Failure to do so may result in fire or electric shock.

Do not expose this monitor to dripping or splashing.
Doing so may result in electric shock.

Do not operate this monitor with wet hands.
Failure to do so may result in electric shock.

Do not use this monitor again when the power cord is damaged.
Doing so may result in fire or electric shock.

Use only in cars with A 12 Volt negative ground.
(Check with your dealer if you are not sure.)
Failure to do so may result in fire, etc.

Keep small objects such as batteries out of the reach of children.
Swallowing them may result in serious injury.
If swallowed, consult a physician immediately.

Do not block vents or radiator panels.
Doing so may cause heat to build up inside and may result in fire.

Use this product for mobile 12V applications.
Use for other than its designed application may result in fire, electric shock or other injury.

Do not place hands, fingers or foreign objects in insertion slots or gaps.
Failure to do so may result in personal injury or damage to the product.

Operating Instructions

⚠ PRECAUTIONS

Please read all safety and operating instructions in this manual carefully, and keep this manual for future reference.

Personal Safety

- The back seat passenger must fasten the seatbelt while operating this monitor.
- Do not insert the USB while driving. Failure to do so may result in personal injury.

Temperature

Do not operate your unit in ambient temperature above +60˚C (+140˚F) or below 0˚C (+32˚F).

Product Cleaning

Use a soft dry cloth for periodic cleaning of the product. For more severe stains, please dampen the cloth with water only. Anything else has the chance of dissolving the paint or damaging the plastic.

Installation

- Please inquire to your retailing shop to contact the specialized engineer or technical staff for installation.
- Be sure to comply with this manual while connecting the cables. Failure to do so may result in damage to the product.
- Be sure the stability of the signal cable while installing. Failure to do so may cause fire or electric shock due to the wear of the signal cable.
- Be sure to collect the cables well after installation. Failure to do so may cause fire or electric shock.

Maintenance

If you have problems, do not attempt to repair the unit by yourself. Doing so may result in personal injury or damage to the product. Return it to your retailing shop for repairing.

Characteristics of LCD Panel

- After turning the system off, a slight ghost of the image will remain temporarily. This is an effect peculiar to LCD technology and is normal.
- Under cold temperature conditions, the screen may lose contrast temporarily. After a short warm-up period, it will return to normal.
- The LCD panel is manufactured using an extremely high precision manufacturing technology. Its effective pixel ratio is over 99.99%. This means that 0.01% of the pixels could be either always ON or OFF.

Using the remote control

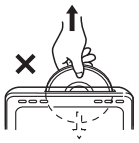
- Point the remote control at the remote sensors within 2 meters.
- It may not be possible to operate the remote control if the remote control sensor is exposed to direct sunlight or interfere with objects.

Using Wireless Headphones (Option)

- Keep the volume at a level where you can still hear outside noise while driving. Failure to do so may result in an accident.
- If ACC or the monitor's power source is turned off, a loud noise is produced though the headphones. Be sure to remove the wireless headphones from your ears before you turn the monitor off.

Inserting & Ejecting Discs

- Be sure to switch to DVD source before loading and Unloading Discs.
- Make sure the label side is facing you when you insert the disc.
- Press ⏏ to eject any disc that is inserted incorrectly.
- Do not attempt to insert a disc into the unit when the unit power is off.
- Your player accepts only one disc at a time for play-back. Do not attempt to load more than one disc.
- Playing a disc while driving on a very bumpy road may result in skips, but this will not scratch the disc or damage the player.
- Do not grip or pull out the disc while it is being pulled back into the player by the automatic reloading mechanism.



- As a protective measure to prevent the disc from jamming, press ⏏ to eject any disc with irregular surface or inserted incorrectly.

Damage Discs

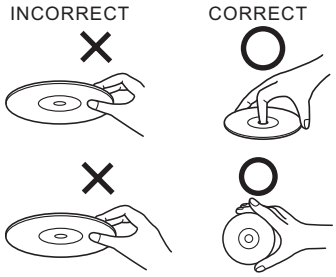
Do not attempt to play cracked, warped, or damaged discs. Playing a bad disc could severely damage the playback mechanism.

Irregular Shaped Discs

Be sure to use round shaped discs only for this unit and never use any special shaped discs. Use of special shaped discs may cause damage to the mechanism.

Correct Handling

- Do not drop the disc while handling.
- Hold the disc so you will not leave fingerprints on the surface.
- Do not affix tape, paper, or gummed labels to the disc.
- Do not write on the disc.



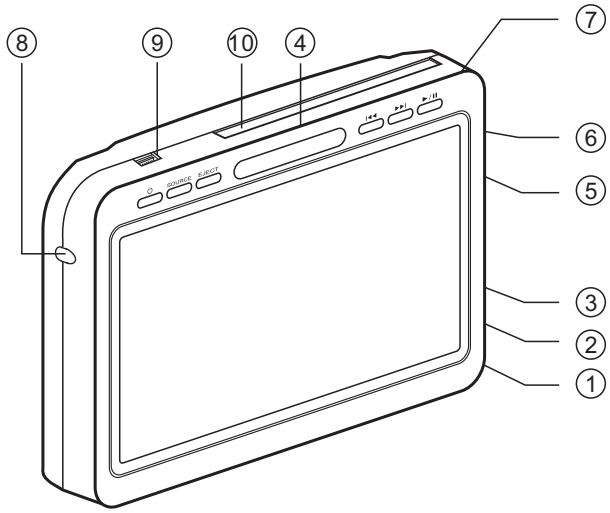
Disc Cleaning

Fingerprints, dust, or soil on the surface of the disc could cause the player to skip. For routine cleaning, wipe the playing surface with a clean, soft cloth from the center of the disc to the outer edge. If the surface is heavily soiled, dampen a clean, soft cloth in a solution of mild neutral detergent before cleaning the disc.

On handling compact (CD/CD-R/CD-RW)

- Do not touch the surface.
- Do not expose the disc to direct sunlight.
- Do not affix stickers or labels.
- Clean the disc when it is dusty.
- Make sure that the disc is smooth and flat.
- Do not use commercially available disc accessories.

Monitor Function Overview



① **POWER** ⏻
- Press PWR button to turn on or off the unit.

② **SOURCE**
- Press SOURCE button to switch the display source.
  DVD / AV2 / AV3 / VGA (Option)

③ **EJECT**
- Press EJECT button to stop playing and eject the disc.

④ **IR Transmitter and Receiver**
The receiving angle is about 30 degrees and the receiving distance is about 2M.

⑤ **PREV** ⏮
- Press PREV button to skip backward. (chapter).

⑥ **NEXT** ⏭
- Press NEXT button to skip forward. (chapter).

⑦ **PLAY / PAUSE** ⏯
- Press once to start playing. Press twice to pause playing.

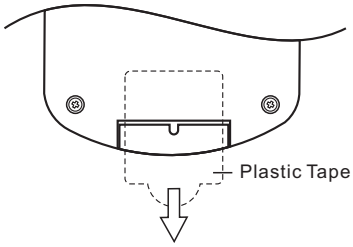
⑧ **AV Input** (AV 3 / Game Port)

⑨ **USB Port**

⑩ **Disc - In Slot**
(DVD / DVD-R / DVD-RW / DVD+R / DVD+RW / VCD / CD-ROM / CD-RW)

When Using the Remote Control

When you use the remote control for the first time, pull the plastic tape before using the remote control.



Battery Replacement

1. Opening the battery case.

Pull up the battery tray.

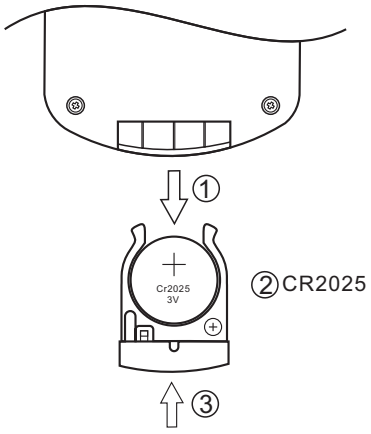
2. Replacing the battery. (CR-2025)

Put the battery in the case with the (+) indication upward as show in the illustration.

- ***Battery type : Mercury Battery - CR 2025.***
- *Placing a battery in backwards way may cause a malfunction.*

3. Closing the cover.

Push the battery tray as illustrated until a click is heard.



WARNING

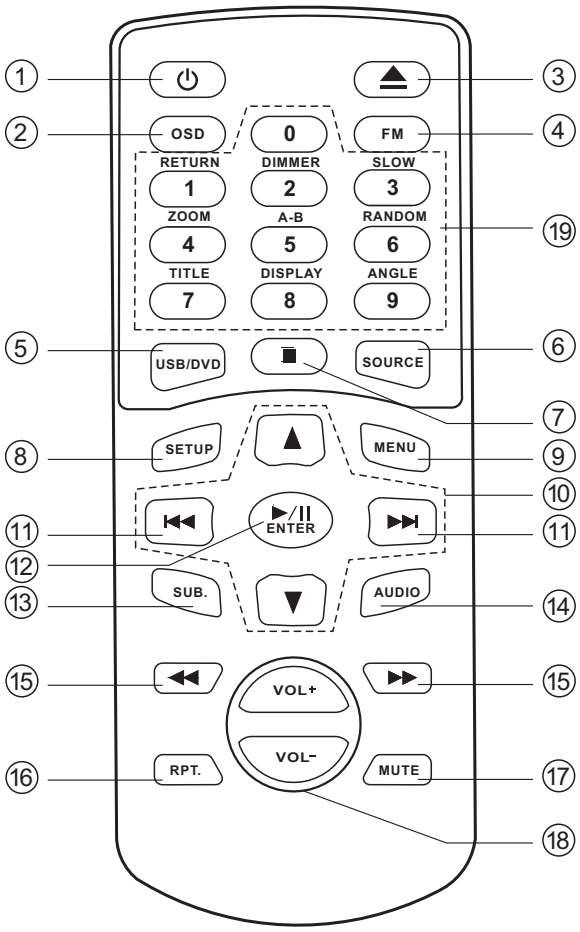
Do not operate any function that takes your attention away from safety driving your vehicle.

Any function that requires your prolonged attention should only be performed after coming to a complete stop. Always stop the vehicle in a safe location before performing these functions. Failure to do so may result in an accident.

Remote Control Function Overview

CAUTION

- Point the remote control at the remote sensors within 2 meters.
- It may not be possible to operate the remote control if the remote control sensor is exposed to direct sunlight or interfere with objects.
- The remote control is a small, lightweight precision device. To avoid damage, short battery life, operational errors and poor response, observe the following.
  - Do not subject the remote control to excessive shock.
  - Do not put in a trouser pocket.
  - Keep away from food, moisture and dirt.
  - Do not place in direct sunshine.
- Remove the battery if it's not being used for a long time.
- Batteries contain chemical substance, so they should be disposed of properly.



① **POWER** (⏻)
Switch the monitor power ON/OFF

② **OSD MENU** (OSD)
Enter or exit the on-screen display menu system.

③ **EJECT DISK** (⏏)
Stop playback and eject the disc.

④ **FM Transmisor** (FM)
Switch the FM ON/OFF.

⑤ **DVD / USB** (USB/DVD)
Switch the DVD/USB mode.

⑥ **DISPLAY SOURCE** (SOURCE)
Switch the display source.
DVD → AV2 → AV3 → VGA(Option)

⑦ **STOP PLAYBACK** (■)
(1)Press Once: PRE-STOP disc playback.
(2)Press Twice: STOP playback completely.

⑧ **DVD SETUP MENU** (SETUP)
Enter or exit the DVD setup menu.

⑨ **DISC MENU** (MENU)
Enter or exit the disc contents menu.

⑩ **CURSOR BUTTONS** (▲) (▼) (⏮) (⏭)
Move between the function items in a menu.

⑪ **SKIP FORWARD / BACKWARD** (⏮) (⏭)
Skip to the next or previous chapter/title/track.

⑫ **PLAY/PAUSE/ENTER** (▶/II ENTER)
(1) Press Once: Start playback.
(2) Press Twice: Pause playback.

⑬ **SUBTITLE** (SUB.)
Select the desired subtitle to display.

⑭ **AUDIO LANGUAGE** (AUDIO)
Select the desired audio language to display.

⑮ **SEARCH FORWARD / BACKWARD** (◀◀) (▶▶)
Select the desired search forward / backward speed.

▶▶2 → ▶▶4 → ▶▶8 → ▶▶20

◀◀2 → ◀◀4 → ◀◀8 → ◀◀20

⑯ **REPEAT** (RPT.)
Select the desired repeat mode.
(1) DVD Disc:
Chapter → Title → REP. ALL → OFF

(2) CD/VCD Disc:
Repeat 1 → REP. ALL → Repeat OFF

⑰ **MUTE** (MUTE)
Disable or enable audio output.

⑱ **VOLUME INCREASE / DECREASE** (VOL+) (VOL-)
Increase/Decrease the volume.

⑲ **NUMBER KEY PAD** (0) ~ (9)
Press (0) + number key pad to input data for disc.

RETURN (1) **RETURN**
Return to previous step.

DIMMER (2) **DIMMER**
Select different LCD panel back-light brightness.

SLOW (3) **SLOW**
Select different slow playback modes for a VCD / DVD.

ZOOM (4) **ZOOM**
Enlarge a picture or active image on the screen.

A-B (5) **A-B**
Repeat playback of a speific section within a chapter of DVD or a track.

RANDOM (6) **RANDOM**
Select to playback the chapter / track randomly.

TITLE (7) **TITLE**
Go to disc title.

DISPLAY (8) **DISPLAY**
Display disc playback time during playback.

ANGLE (9) **ANGLE**
Select desired viewing angle. (If a DVD disc contains multi-angle feature, viewing angles may be selected.)

Turning Power ON/ OFF

The power state of the monitor will not be memorized when Ignition/ACC is turned off. When Ignition/ACC is turned back on, the monitor returns to OFF.

Front Control Keys

1. Press ⏻ to turn ON.
2. To turn off the power, press and hold ⏻ again.

- *While the power is ON, press MUTE to active the Mute function.*

Remote Control

1. Press ⏻ to turn ON.
2. To turn off the power, press ⏻ again.

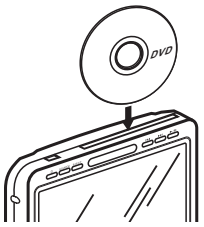
Loading Discs / Unloading Discs

Turn on the power before loading and Unloading Discs.

- *Be sure to switch to DVD soure, before loading and Unloading Discs..*

Loading Discs

Insert the disc with the label side facing you.



Once the disc is partially inserted, it is drawn in automatically. Playback starts

- *If the ignition key is on ACC or ON, a disc cannot be inserted when the power is OFF.*
- *If wrong disc, upside-down disc or dirty disc have been inserted. "NO DISC" is displayed.*

Unloading Discs

Press ⏏ to eject the disc.
Be sure to remove the disc.

- *If the ignition key is set to ACC or ON, a disc cannot be removed when the power is OFF.*
- *During ACC OFF or while the disc is being loaded ("READ" is displayed,) the disc will not be ejected even if you press " ⏏ EJECT".*

Audio Mute Function

Remote Control

Press MUTE to turn the Mute function ON and OFF.

Adjusting the Volume

Volume can be controlled from the headphone or your own radio volume function.

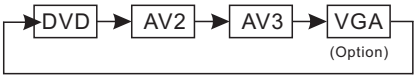
1. Turn on "**POWER**" on the headphone.
2. Adjust the volume level by turning clockwise for louder and counter-clockwise for lower on the headphone.

- *Refer to "Wireless Headphone" on Page 20~21.*

Switching the Source

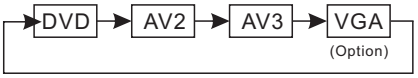
Front Control Keys

1. Press "**SOURCE**" to cycle through the different sources.

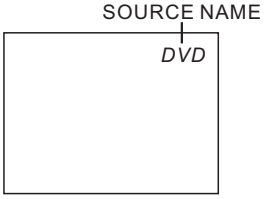


Remote Control

1. Press SOURCE to cycle through the different sources.



- *OSD (On Screen Display) will be turned off automatically, when not operating more than 10 seconds.*
- ***To connect the device to AV2, AV3 and VGA (Option), please refer to "Connections" on Page 27~28 .***
- *When the source is changed, the device will not remember the scene where playback stopped.*
- *The device mode of the remote control is automatically shifted to the assigned device, when AV2, AV3 or VGA (Option) is pressed.*
- *When you proceed the above step with front control keys or remote control, the device source name on OSD can be automatically shifted.*



Turning FM ON / OFF (Option)

1. Press FM to turn on the FM transmitter.
2. While FM is ON, press ▲ and ▼ to select desired FM frequency.
3. To turn off the FM, press FM again.

• ***FM frequencies between 87.7MHz to 88.9MHz.***

Switching DVD / USB mode (DVD Only)

1. Press USB/DVD to change DVD mode or USB mode.

⚠ CAUTION

Do not use USB while driving your vehicle. Always stop the vehicle in a safe location before performing these functions. Failure to do so may result in serious injury or an accident.

⚠ CAUTION

- Not all function will operate for every DVD. See the individual MMD's instructions for details on the features supported.
- Fingerprints on a disc may adversely affect playback. If a problem occurs, remove the disc and check for fingerprints on the playback side. Clean the disc if necessary.
- When using the remote control, be careful to press on button at time. Pressing multiple buttons at the same time may cause erroneous operation.
- If you switch the power or ignition key OFF during playback, playback will continue where you left off when you resume playback.
- If you try to perform an invalid operation (based on the type of disc being played), the message "INVALID KEY" will be displayed on the monitor screen.
- A disc type must match the setting of the system. If a wrong type disc is inserted, the message "NO DISC" will be displayed, and playback is not available.

Playing DVD/VCD/CD

Insert a disc with the label side facing you.
To load discs, see "Loading and Unloading Disc" on Page 7. Playback starts.

- *The reverse side of a disc will not be played automatically. Remove the disc, turn it over and reinsert it.*
- *It may take some time before playback starts after loading a disc.*

Disc Auto Play

The disc will play automatically without pressing ▶/II ENTER when disc is inserted.

MMD Menu

1. Press SETUP to display MMD Menu.
2. Press ▲ ▼ ⏮ ⏭ to select the desired item, then press ▶/II ENTER to confirm a selection.

- *The menu screen does not appear when it's not in DVD mode. In this case, press SOURCE to DVD mode. To setup the items, see "MMD Setup" on Page 16~18.*

MMD Operations

Video Menu

1. Press OSD to display Video Menu.
2. Press ▲ ▼ to select the desired item, and then press OSD again to confirm a selection.

• *The video menu on DVD mode will be different with AV2 and AV3 mode. For details, refer to "MONITOR SETUP" on Page13～15.*

Stopping Playback (PRE-STOP)

1. Press ■ during playback. "PRE-STOP ▶■" is displayed, and playback pauses.
   That position is stored in memory.
2. Press ▶/II ENTER in the PRE-STOP mode to return to normal playback.
   Playback starts from the position at which it was stopped.

• *For some disc, the position at which playback was stopped may not be accurate.*

Stopping Playback

1. Press ■ twice during playback.
   "STOP ■" is displayed, and playback stops.
2. Press ▶/II ENTER in the STOP mode to return to normal playback.
   Playback starts from the beginning.

Fast-forwarding / Fast-reversing

1. During playback, press and hold ◀◀ or ▶▶ to set search speed (×2/ ×4/ ×8/ ×20) forwarded or reversed.

   ▶▶2 → ▶▶4 → ▶▶8 → ▶▶20

2. Release ◀◀ or ▶▶ to pause, then press ▶/II ENTER return to normal playback.

• *No sound appears during fast-forward / fast-reverse.*
• *Fast-forwarding / fast-reversing of a video CD is only function if the disc incorporates playback control.*
• *For DVD and video CDs with playback control, the menu screen may reappear during fast-forwarding / fast-reversing.*

Finding the Beginning of Chapters

During playback, press ⏮ or ⏭ to find the beginning of chapters.

The chapter / track switches each time the button is pressed, and playback of the selected chapter / track starts.

⏮ Press this to start playback from the beginning of the current chapter or track.

⏭ Press this to start playback from the beginning of the following chapter or track.

• *Some DVDs do not have chapters.*

※ ***Supplementary explanation:***
"Chapters" are divisions of movies or musical selections on DVDs.
"Tracks" are divisions of movies or musical selections on video and music CDs.

Playing Still Frames (Pause)

1. During playback, press ▶/II ENTER to pause.
2. Press ▶/II ENTER again to resume playback.

• *No sound appears during the still mode.*
• *The image or sound may stop temporarily when playback starts from the pause mode. This is not a malfunction.*
• *When ▶/II ENTER on Front Passenger Control is pressed, blue screen appears temporarily.*

Frame-by-Frame Playback.

1. In the pause mode, press ⏮ or ⏭.
   The picture advances or reverses by one frame each time the button is pressed.
2. Press ▶/II ENTER to resume normal playback.

• *No sound is played during frame-by-frame playback.*
• *For video CD, reverse frame-by-frame playback is not available.*

Switching the Audio Tracks

DVDs can have different audio tracks. These alternate tracks can be switched during playback.

1. During playback, press AUDIO.
The sound switched between the alternate audio tracks recorded on the disc each time the button is pressed.

- *The selected alternate track becomes the default setting every time the power is turned on or the disc is replaced. If the disc does not Include that track, the disc's default language is selected instead.*
- *Not all discs will allow changing the alternate audio tracks during playback. In these cases, select audio tracks from the DVD menu.*
- *There may be a delay before the selected alternate track begins to play.*

Chapter/Track/ Title Repeat Playback

Use this function to play the disc's titles, chapters or tracks repeatedly.

1. During playback, press RPT.
The repeat mode switches each time the button is pressed.

DVD Disc

CHAPTER	-The chapter is played repeatedly.
TITLE	-The title is played repeatedly.
REPEAT ALL	-All chapters/titles are played repeatedly.
OFF	-Repeat function off. The mode returns to normal playback.

CD/VCD Disc

REPEAT 1	-The track is played repeatedly.
REPEAT ALL	-The entire disc is played repeatedly.
REPEAT OFF	-Repeat function off. The mode returns to normal playback.

Repeating the Display Period (A-B)

Use this function to set a display period repeatedly.

1. During playback, press 5 **A-B**.

REPEAT A-	-Setting a display period start.
REPEAT A-B	-Setting a display period end.
A-B CANCEL	-Canceling the setting of display period.

Switching the Angle (DVD only)

On DVDs in which scenes have been filmed from multiple angles, the angles can be switched during playback.

1. During playback, press 9 **ANGLE**.
The angle switches between the angles recorded on the disc, each time the button is pressed.

- *Sometimes may be required for the angle to change.*

Switching the Subtitles (DVD only)

With multiple subtitle language DVDs, the subtitle language can be switched during playback, or subtitles can be hidden.

1. During playback, press SUB.

The subtitle switched between the languages recorded on the disc and OFF each time the button is pressed.

- *There may be a delay before the selected subtitle appears.*
- *Not all disc with allow changing the subtitles during playback. In these cases, select subtitles from the MMD's menu.*
- *The selected subtitle language becomes the default setting every time the power is turned on or the disc is replaced. If the disc does not include that language, the disc's default language is selected instead.*
- *For some discs, the subtitles will be displayed even when this is set to off.*

※Tips

Switching from the disc menu 1 **RETURN.**
For some discs, the audio language, angle and subtitles can be switched from the disc menu.

1. Press 1 **RETURN** to select the item, then press ENTER.

2. Press ▲ ▼ ⏮ ⏭ to select the language or angle, then press ▶/II ENTER.

Using Number Key pad

1. Press 0 + Number key pad to input data for disc.

1 2 3
4 5 6
7 8 9

MMD Operations

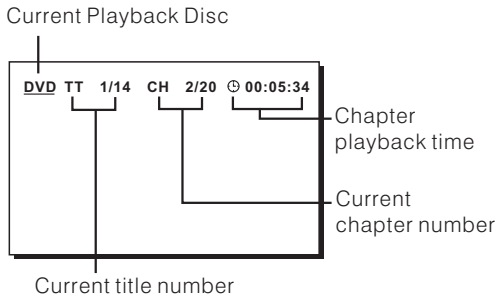
Displaying the Disc Status

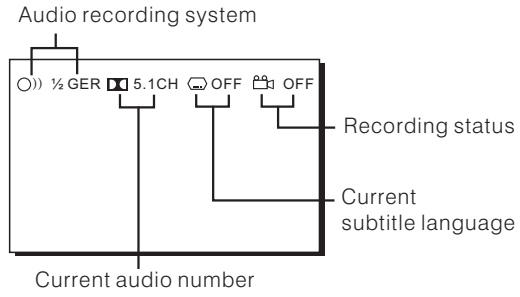
Use the procedure described below to display the status (title number, chapter number, etc.) of the currently playing DVD/VCD/CD on the monitor screen.

1. During playback, press (8) **DISPLAY**.
The playback status is displayed.

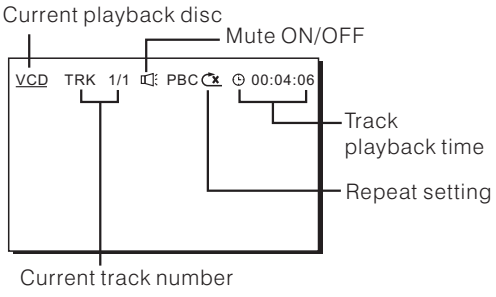
2. The playback status display closes when (8) **DISPLAY** is pressed again.

DVD Disc

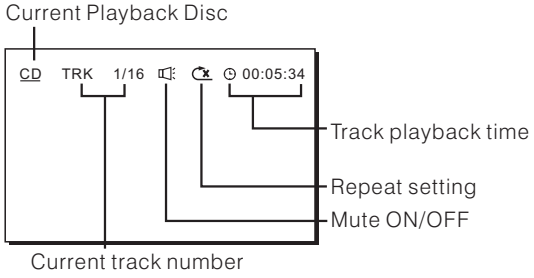




VCD Disc



CD Disc



Slow Motion Playback

Slow allows you to select different slow playback modes for a VCD / DVD during playback.

1. Press (3) **SLOW** to select slow playback speed from normal to ½, ⅓, ¼, ⅕, ⅙, ⅐.

½ → ⅓ → ¼ → ⅕ → ⅙ → ⅐ → PLAY

2. To return to normal playback, press (3) **SLOW** repeatedly until normal speed playback.

- *No sound is played during slow motion playback / reverse slow motion playback.*
- *Slow playback / reverse slow playback is not available when playing back a slide show.*

Setting the DIMMER

Dimmer allows you to select different LCD backlight brightness during playback.

1. Press (2) **DIMMER** to select ON / OFF.

- *AUTO adjusts the LCD backlight brightness automatically by sensing the ambient light form the luminance sensor.*

Setting the ZOOM (Zoom In / Out)

Zooming allows you to enlarge a picture or active image on screen during playback.

1. Press (4) **ZOOM** repeatedly to zoom in lout on the playback video image.

2 → 3 → 4 → ½ → ⅓ → ¼ → OFF

2. To return to normal playback, press (4) **ZOOM** repeatedly until "ZOOM OFF"

Setting the RANDOM (On/Off)

Random allows you to select to playback the chapter / track randomly during playback.

1. Press (6) **RANDOM** to play the chapter / track randomly.

2. To return to normal playback, press (6) **RANDOM** again to turn it "OFF"

⚠ CAUTION

- Not all function will operate for every formats. See the individual USB's instructions for details on the features supported.
- Do not use USB while driving your vehicle. Always stop the vehicle in a safe location before performing these functions. Failure to do so may result in serious injury or an accident.
- If you try to perform an invalid operation (based on the type of disc being played), the message "INVALID KEY" will be displayed on the monitor screen.
- A disc type must match the setting of the system. If a wrong type disc is inserted, the message "NOT FOUND USB" will be displayed, and playback is not available.

Switching DVD / USB mode (DVD only)

1. After connecting USB, press USB/DVD to change to USB mode.
2. To return to DVD mode, press USB/DVD again.

Playable files on this unit

After connecting USB, the unit shall search the directories automatically, after it's being searched, it will enter the directory of **MUSIC(MP3/WMA)**, **PHOTO (JPEG) and MOVIE (AVI)** 3 kinds of files.

MUSIC→ JPEG → AVI

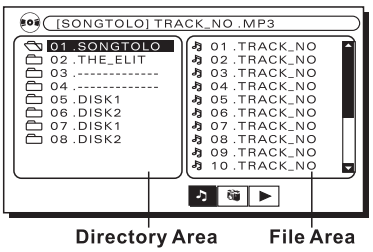
- *It may take some time to search the directories after connecting USB.*

■ MUSIC (MP3 / WMA)

1. Press ▲ ▼ ⏮ ⏭ to select desired music files.
2. Press ▶/II ENTER to start or pause playback.
3. During playback, press and hold ◀◀ or ▶▶ to set search speed (×2/ ×4/ ×8/ ×20) forward or reverse.

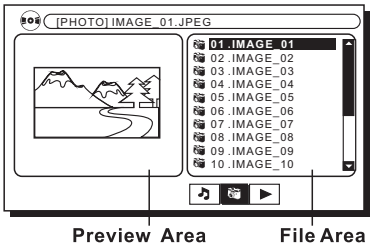
▶▶2 →▶▶4 →▶▶8 →▶▶20

4. Release ◀◀ or ▶▶ to pause, and press ▶/II ENTER to return to normal playback.



■ PHOTO (JPEG)

1. Press ▲ ▼ ⏮ ⏭ to select desired photos.
2. Press ▶/II ENTER to start or pause playback by full screen automatically.
3. During playback, press ▲ (UP-DOWN reverse), ▼ (RIGHT-LEFT reverse)
4. Press ■ to return to the USB menu.

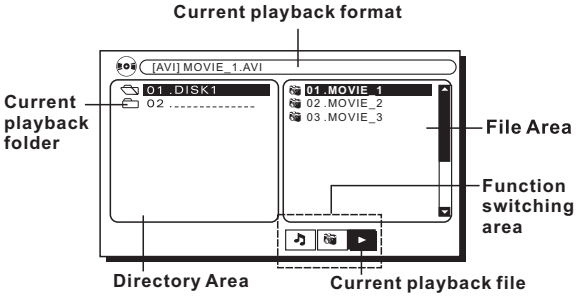


■ MOVIE (AVI)

1. Press ▲ ▼ ⏮ ⏭ to select desired movies.
2. Press ▶/II ENTER to start or pause playing by full screen automatically.
3. During playback, press and hold ◀◀ or ▶▶ to set search speed (×2/ ×4/ ×8/ ×20) forward or reverse.

▶▶2 →▶▶4 →▶▶8 →▶▶20

4. Release ◀◀ or ▶▶ to pause, and press ▶/II ENTER to return to normal playback.



Monitor Setup

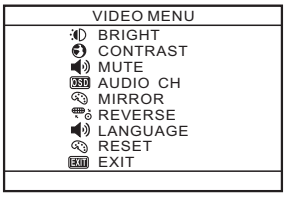
Adjusting Picture

The video menu on DVD mode will be different with AV2, AV3 and AV4 mode.

- *Each source is independently adjustable.*
- *Make adjustments within 10 seconds, otherwise the OSD (On Screen Display) will turn off automatically.*

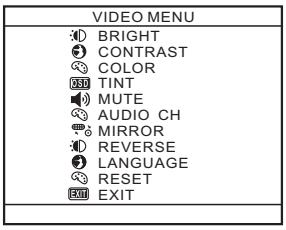
DVD

Bright, Contrast, Mute, Audio CH, Mirror, Reverse, Language, Reset and Exit are adjustable.



AV2 / AV3

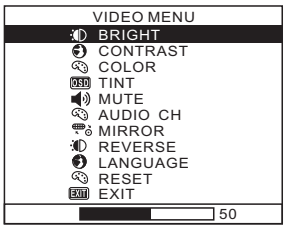
Bright, Contrast, Color, Tint, Mute, Audio CH, Mirror, Reverse, Language, Reset and Exit are adjustable.



1. Press OSD button on the remote control. The picture setting menu is highlighted.
2. Select and Press **"EXIT"** or wait **10 seconds** until OSD disappear, the adjustment will be saved automatically.

Adjusting the Bright

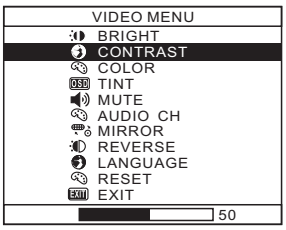
1. Press OSD button on the remote control. The picture setting menu is highlighted.
2. Press ▲ or ▼ to select **BRIGHT**, then press OSD to confirm a selection.



3. Press ▲ or ▼ to adjust the brightness. Bright can be adjusted from 0 (MIN) to 100(MAX).
4. Press OSD again to save adjustment or wait 10 seconds until OSD disappear, the adjustment will be save automatically.

Adjusting the Contrast

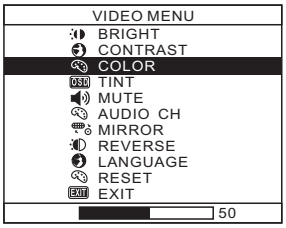
1. Press OSD button on the remote control. The picture setting menu is highlighted.
2. Press ▲ or ▼ to select **CONTRAST**, then press OSD to confirm a selection.



3. Press ▲ or ▼ to adjust the contrast. Contrast can be adjusted form 0(MIN) to 100(MAX).
4. Press OSD again to save adjustment or wait 10 seconds until OSD disappear, the adjustment will be save automatically.

Adjusting the Color Density (AV2/AV3 only)

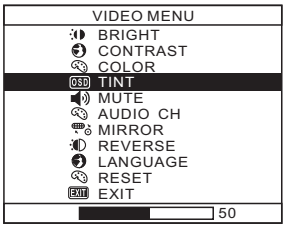
1. Press OSD button on the remote control. The picture setting menu is highlighted.
2. Press ▲ or ▼ to select **COLOR**, then press OSD to confirm a selection.



3. Press ▲ or ▼ to adjust the color density. Change depth can be adjusted from 0 (MIN) to 100 (MAX).
4. Press OSD again to save adjustment or wait 10 seconds until OSD disappear, the adjustment will be save automatically.

Adjusting the TINT (AV2/AV3 only)

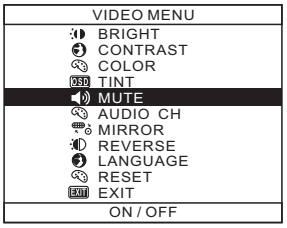
1. Press OSD button on the remote control. The picture setting menu is highlighted.
2. Press ▲ or ▼ to select **TINT**, then press OSD to confirm a selection.



3. Press ▲ or ▼ to adjust the color density. Tint tone can be adjusted from 0 (MIN) to 100 (MAX).
4. Press OSD to save adjustment or wait 10 seconds until OSD disappear, the adjustment will be save automatically.

Setting Audio Mute ON/ OFF

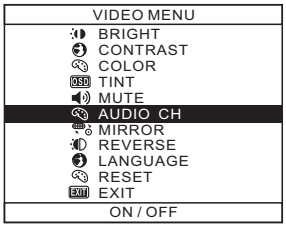
1. Press OSD button on the remote control. The picture setting menu is highlighted.
2. Press ▲ or ▼ to select **MUTE**, then press OSD to confirm a selection.



3. Press ▲ or ▼ to turn the mute function ON or OFF.
4. Press OSD again to save adjustment or wait 10 seconds until OSD disappear, the adjustment will be save automatically.

Setting Audio CH

1. Press OSD button on the remote control. The picture setting menu is highlighted.
2. Press ▲ or ▼ to select **AUDIO CH**, then press OSD to confirm a selection.

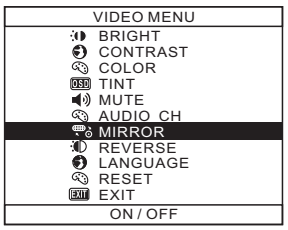


3. Press ▲ or ▼ to select Channel A or Channel B.
4. Press OSD again to save adjustment or wait 10 seconds until OSD disappear, the adjustment will be save automatically.

Monitor Setup

Setting Mirror ON/ OFF

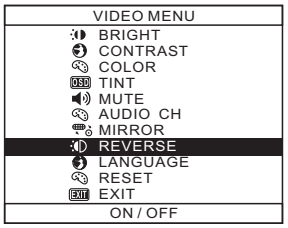
1. Press OSD button on the remote control. The picture setting menu is highlighted.
2. Press ▲ or ▼ to select **MIRROR**, then press OSD to confirm a selection.



3. Press ▲ or ▼ to turn the mirror function ON or OFF.
4. Press OSD again to save adjustment or wait 10 seconds until OSD disappear, the adjustment will be save automatically .

Setting Reverse ON/ OFF

1. Press OSD button on the remote control. The picture setting menu is highlighted.
2. Press ▲ or ▼ to select **REVERSE**, then press OSD to confirm a selection.

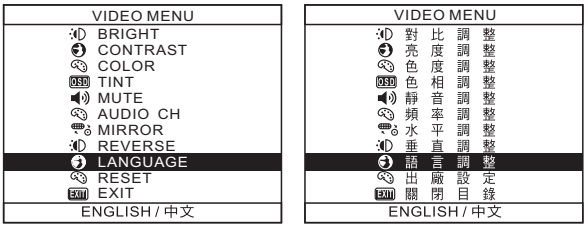


3. Press ▲ or ▼ to turn the reverse function ON or OFF.
4. Press OSD again to save adjustment or wait 10 seconds until OSD disappear, the adjustment will be save automatically.

Setting Language

1. Press OSD button on the remote control. The picture setting menu is highlighted.
2. Press ▲ or ▼ to select **LANGUAGE**, then press OSD to confirm a selection.

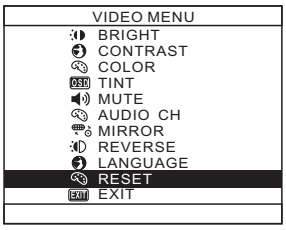
ENGLISH 中文



3. Press ▲ or ▼ to select language English or Chinese.
4. Press OSD again to save adjustment or wait 10 seconds until OSD disappear, the adjustment will be save automatically.

Resetting the Picture Adjustment

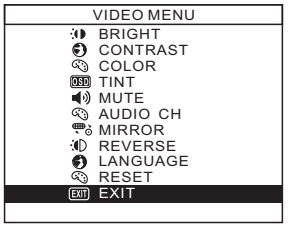
1. Press OSD button on the remote control. The picture setting menu is highlighted.
2. Press ▲ or ▼ to select **RESET**, then press OSD to confirm a selection.



3. Press ▲ or ▼ to reset the picture adjustments.
4. Press OSD again or wait 10 seconds until OSD disappear, the adjustment will be save automatically.

Turning OFF Monitor Setting Menu

1. Press OSD button on the remote control. The picture setting menu is highlighted.
2. Press ▲ or ▼ to select **EXIT**, then press OSD again to turn off the OSD or wait 10 seconds until OSD disappear.



DVD Setup Operation

The following steps 1 to 2 are common to each of the DVD settings described here. Refer to each section for details.

1. Press and hold SETUP on the remote control.
The setup menu appears on the monitor.

2. Press ⏮ or ⏭ to select desired setting item (System Setup/ Language Setup/ Audio setup), then press ▼.
Further items will be displayed.

SYSTEM SETUP
SYSTEM / SCREEN SAVER / SCREEN TYPE / PASSWORD / RATING / DEFAULT

LANGUAGE SETUP
OSD LANGUAGE / AUDIO LANG / SUBTITLE LANG / MENU LANG

AUDIO SETUP
DOWN MIX / DYNAMIC RANGE / DOWN SAMPLE

3. Press ▲ or ▼ to change the setting of further items, then press ENTER.

4. Press and hold ENTER. The settings are stored and the setup mode is deactivated.

5. Press SETUP or "EXIT SETUP" to return to normal display.

- *When settings are changed, old settings are overwritten. Make a note of current settings before making changes. If the vehicle's battery is disconnected, the settings will be cleared and will return to Factory settings.*

System Setup

TV system, Screen saver, TV type, Password, Rating and Default are adjustable.

1. Press SETUP button on the remote control. The setup menu appears on the monitor.

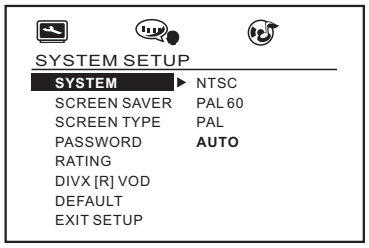
2. Press ▲ or ▼ to select SYSTEM / SCREEN SAVER / SCREEN TYPE / PASSWORD / RATING / DIVX [R] VOD / DEFAULT, then press ENTER to confirm a selection.

■ Setting the System (default : Auto)

Broadcast TV System can be manually switched.

3. Press ▲ or ▼ to select NTSC /PAL 60/ PAL / AUTO.

4. Press ENTER to save adjustment.

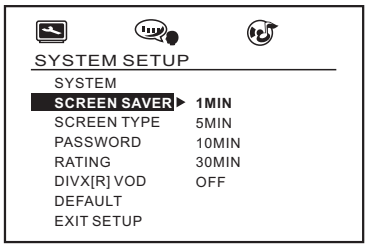


■ Setting Screen Saver (default : 1 Min)

Use this function to set the time of screen saver.

3. Press ▲ or ▼ to select 1 MIN, 5 MIN, 10 MIN, 30 MIN or OFF.

4. Press ENTER to save adjustment.



■ Setting Screen Type (default : 16:9)

- *For some discs, the picture may not be set to the selected screen size.*

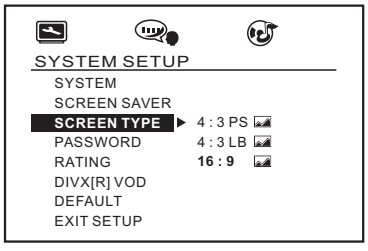
3. Press ▲ or ▼ to select desired screen type.

· 4:3 PS (PAN-SCAN)
Select this when connected to a conventional 4:3 size monitor. The picture will fill the entire TV screen. Due to the mismatch in aspect ratio, parts of the movie at the extreme left and right sides will not be visible when playing a 16:9 size movie.

· 4:3 LB (LETTER BOX)
Select this when connected to a conventional 4:3 size (normal TV aspect ratio) monitor. There may be black bands visible at the top and bottom of the screen when playing a 16:9 size movie.

· 16:9 (WIDE)
Select this when connected to a wide screen TV. This is selected upon shipment from the factory.

4. Press ENTER to save adjustment.



MMD Setup

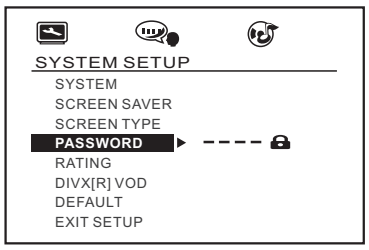
■ Setting Password

There is not original password.

3. Press 0 + Number key pad to setup password.

4. Press ENTER to save adjustment.

• This function can be performing when the player is during stop.



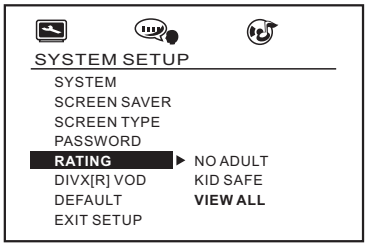
■ Setting the Rating Level (default : View all)

Use this function to restrict the viewing of movies to children of appropriate age levels only.

• On unrated DVDs, playback will not be restricted even if the rating level is set.

3. Press ▲ or ▼ to select NO ADULE, KID SAFE or VIEW ALL.

4. Press ENTER to save adjustment.

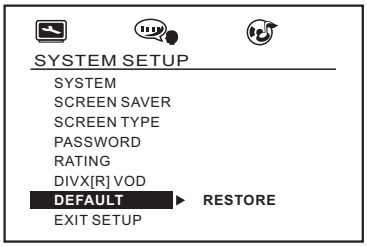


■ Setting the Default

Use this function to restore Factory system setting.

3. Select RESTORE to change to Factory setting.

4. Press ENTER to save adjustment.



Language Setup

OSD Language, Audio Language, Subtitle Language and Menu Language are adjustable.

• The Factory setting of the OSD language is ENGLISH.

1. Press SETUP button on the remote control.
The setup menu appears on the monitor.

2. Press ⏮ or ⏭ to select Language Setup, then press ▼. Further items will be displayed.

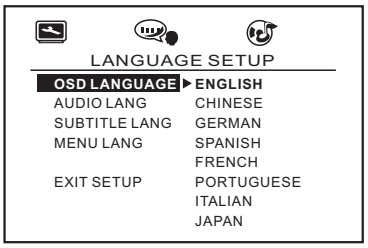
3. Press ▲ or ▼ to select OSD /AUDIO/ SUBTITLE/ MENU LANGUAGE, then press ENTER.

■ Setting OSD Language (default : English)

4. Press ▲ or ▼ to select desired language.

• There are 8 kinds of languages can be chosen. (English, Chinese, German, Spanish, French, Portuguese, Italian, Japan.)

5. Press ENTER to save adjustment.
The settings are stored and the setup mode is deactivated.

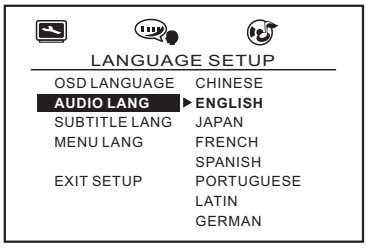


■ Setting Audio Language (default : English)

4. Press ▲ or ▼ to select desired language.

• There are 8 kinds of languages can be chosen. (Chinese, English, Japan, French, Spanish, Portuguese, Latin, German)

5. Press ENTER to save adjustment.

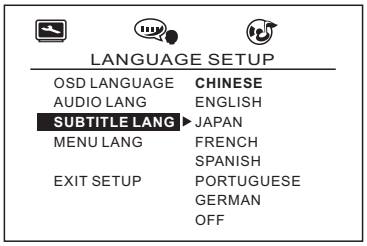


■ **Setting Subtitle Language** (default : Chinese)

4. Press ▲ or ▼ to select desired language.

- *There are 7 kinds of languages can be chosen. (Chinese, English, Japan, French, Spanish, Portuguese, German.)*

5. Press ENTER to save adjustment.

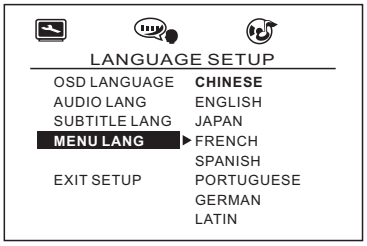


■ **Setting Menu Language** (default : Chinese)

4. Press ▲ or ▼ to select desired language.

- *There are 8 kinds of languages can be chosen. (Chinese, English, Japan, French, Spanish, Portuguese, German, Latin)*

5. Press ENTER to save adjustment.



Audio Setup

Down Mix, Dynamic Range and Down Sample are adjustable.

1. Press SETUP button on the remote control. The setup menu appears on the monitor.

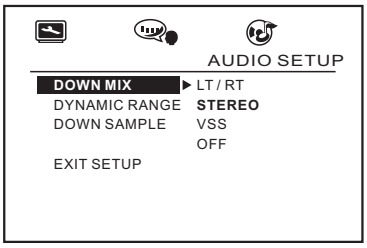
2. Press ⏮ or ⏭ to select Audio Setup, then press ▼. Further items will be displayed.

3. Press ▲ or ▼ and select Down Mix / DYNAMIC RANGE / DOWN SAMPLE, then press ENTER.

■ **Setting Down Mix Mode** (default : Stereo)

4. Press ▲ or ▼ to select down mix mode of LT/RT, STEREO, VSS or OFF.

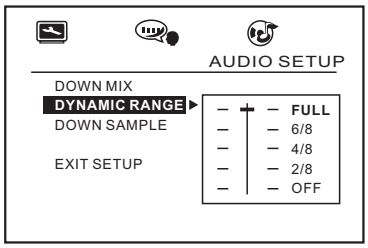
5. Press ENTER to save adjustment.



■ **Setting Dynamic Range** (default : Full)

4. Press ▲ or ▼ to select desired dynamic range of Full, 6/8, 4/8, 2/8 or OFF.

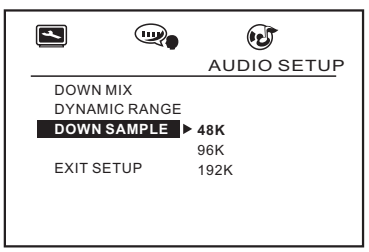
5. Press ENTER to save adjustment.



■ **Setting Down Sample** (default : 48K)

4. Press ▲ or ▼ to select down sample of 48K, 96K or 192K.

5. Press ENTER to save adjustment.



<Option>

VGA Setup

Adjusting Picture

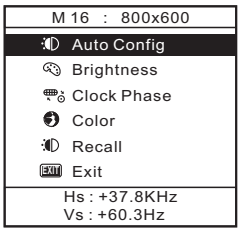
Auto Config, Brightness, Clock Phase, Color, Recall and Exit are adjustable.

- *Make adjustments within 10second, otherwise the OSD (On Screen Display) will turn off automatically.*

1. Press OSD button on the remote control. The picture setting menu is highlighted.
2. Press **EXIT** or wait **10 seconds** until OSD disappear, the adjustment will be saved automatically.

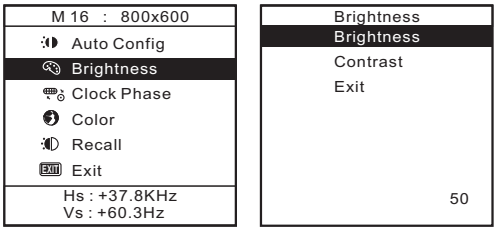
■ Auto Config

1. Press OSD button on the remote control. The VGA picture setting menu is highlighted.
2. Press ▲ or ▼ and select **AUTO CONFIG**.
3. Press OSD again to configure automatically.



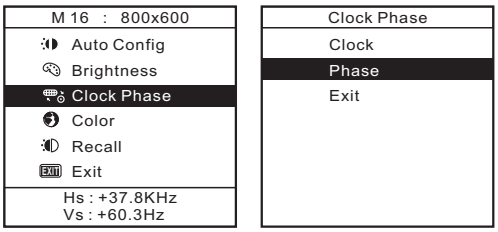
■ Adjusting the Brightness / Contrast

1. Press OSD button on the remote control. The picture setting menu is highlighted.
2. Press ▲ or ▼ and select **BRIGHTNESS**. The BRIGHTNESS setting menu is highlighted.
3. Press ▲ or ▼ to select and adjust Brightness or Contrast. Bright and contrast can be adjusted from 0 (MIN) to 100 (MAX).
4. Press OSD again to save adjustment or wait 10 seconds until OSD disappear, the adjustment will be save automatically.



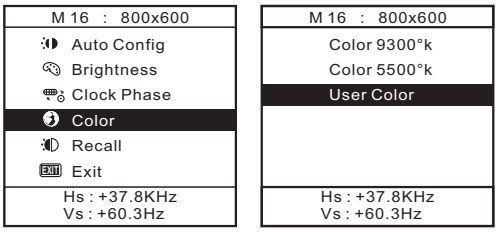
■ Adjusting the Clock Phase

1. Press OSD button on the remote control. The picture setting menu is highlighted.
2. Press ▲ or ▼ and select **CLOCK PHASE**. The CLOCK PHASE setting menu is highlighted.
3. Press ▲ or ▼ and select Clock or Phase.
4. Press ▲ or ▼ to adjust the clock or phase. Clock and phase can be adjusted from 0 (MIN) to 100 (MAX).
5. Press OSD again to save adjustment or wait 10 seconds until OSD disappear, the adjustment will be save automatically.



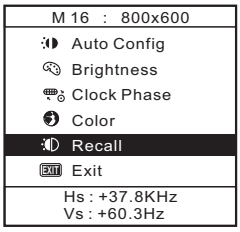
■ Adjusting the color

1. Press OSD button on the remote control. The picture setting menu is highlighted.
2. Press ▲ or ▼ and select **COLOR**. The COLOR setting menu is highlighted.
3. Press ▲ or ▼ and select **Color 9300°k, Color 5500°k or User color**.
4. If you would like to select User color, select and press User color. The User color setting menu is highlighted.
5. Press ▲ or ▼ to select and adjust the **Red color, Green color, Blue color or Auto color**. These colors can be adjusted from 0 (MIN) to 100 (MAX).
6. Press OSD again to save adjustment or wait 10 seconds until OSD disappear, the adjustment will be save automatically.



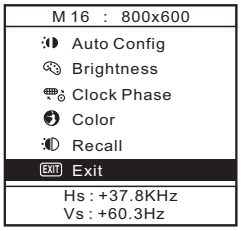
■ Recalling to the Factory Default

1. Press OSD button on the remote control. The picture setting menu is highlighted.
2. Press ▲ or ▼ and select **RECALL** to changes to Factory Default System Setting. Entire settings include Configure, Brightness, Color phase, Color are also recall.



■ Turning OFF VGA setting menu

1. Press OSD button on the remote control. The picture setting menu is highlighted.
2. Press ▲ or ▼ and select **EXIT**, then press OSD again to turn off the OSD or wait 10 seconds until OSD disappear.



Using wireless headphone

- If ACC or the monitor power source is turned off, a loud noise is produced through the headphones. Be sure to remove the wireless headphones from your ears before you turn the monitor off.
- If you feel abnormal or uncomfortable while using the headphone, please stop using and consult a physician immediately.
- The wireless headphone uses the infrared ray (IR) to transmit, if there are obstacles among the transmitter and headphone, it may have some noise.

⚠ PRECAUTIONS

Do not hinder the IR sensor by hand or hair while using .
Failure to do so may result in no sound appears.

Do not expose the headphone to extreme humidity or temperature place.
Failure to do so may result in damage to the headphone.

Keep the volume at a level where you can still hear outside noise while driving.
Failure to do so may result in an accident.

Please remove the battery if it's exhausted or if the headphone is not being used for a long time.
Failure to do so may result in damage to the headphone.

Do not mix new batteries with old batteries. Insert with the correct battery polarity.
When inserting the batteries, be sure to observe proper polarity (+ and -) as instructed. Rupture or chemical leakage from the battery may cause fire or personal injury.

<Option>

Wireless headphone

Headphone Receivers

1.Infrared Sensors
(Receive signal from the transmitter.)

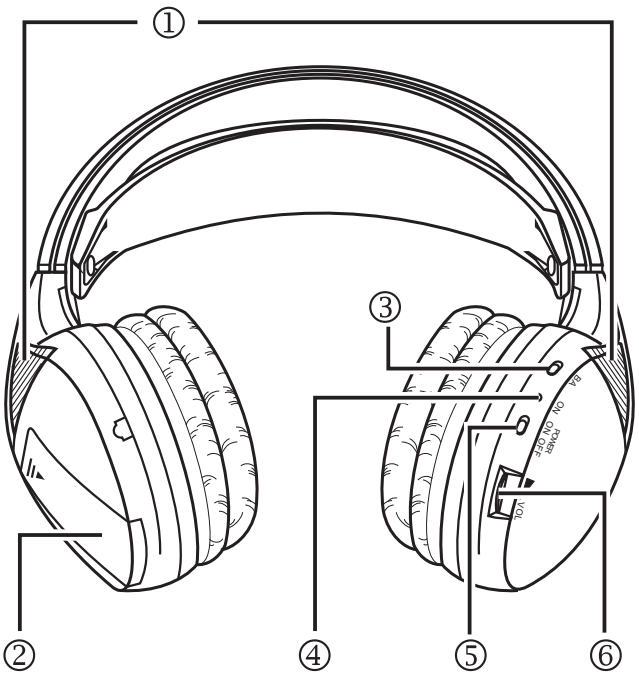
2.Battery Cover

3.Channel A / B

4.Power Indicator light
(Auto power-off when no signal is present)

5.Power Switch (Power ON / OFF)

6.Volume Control (Increase + / Decrease-)



IR (Infrared ray) Specification:

- FM Transmitter
- Right Channel: 2.8MHz / Left Channel: 2.3MHz
- IR effective use range (maximum): About 8 meters of front
- Power Source: AAA battery × 2
- Power Consumption: About 50 hours (Depend on battery quality)
- Weight: 180 grams (Battery excluded)

Operation

Read carefully to prevent causing damage to the headphone or your ears.

⚠ CAUTION :

Before turning on the headphones, please turn the volume down as low as possible.

1. Turn on the power of the screen.

2. Be sure the batteries are properly installed in the headphones.

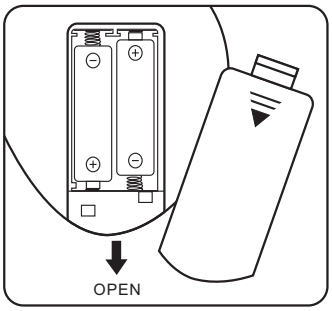
3. Confirm the IR received range, from LCD monitor (signal transmitter) to headphone (signal receiver). Also please pay attention to the not hinder the IR sensors by hand or hair white using.

4. Turn the headphones volume completely down before placing it on your ears.

5. Turn on the headphone power and adjust the headphone volume to a comfortable level (You can increase the audio source volume if needed.)

Battery Installation

Place two AAA batteries into the battery compartment of the headphones, making sure that the battery polarity is correct.



Before installing or connecting the unit, please read the following and page 2～4 of this manual thoroughly for proper use.

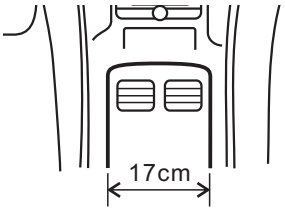
⚠ CAUTION:

The back seat passenger must fasten the seatbelt while operating the unit.

Limitation

- The width between the front seats must be greater than the width of the Center console TFT LCD monitor.
  ◎ 8" LCD Monitor→22cm
  ◎ 10.2" LCD Monitor→25cm

- The width of the console box needs at least 17cm.



Have the wiring and installation done by experts.
The wiring and installation of this unit requires special technical skill and experience. To ensure safety, always contact the dealer where you purchased this unit to have the work done.

Use specified accessory parts and installs them securely.
Be sure to use only the specified accessory parts. Use of other than designated parts may damage this unit internally or may not securely install the unit in place. This may cause parts to become loose resulting in hazards or product failure.

Arrange the wiring so it is not crimped or pinched by a sharp metal edge.
Route the cables and wiring away from moving parts (like the seat rails), sharp or pointed edges. This will prevent crimping and damage to the wiring. If wiring passes through a hole in metal, use a rubber grommet to prevent the wires insulation from being cut by the metal edge of the hole.

Drilling can cause airborne debris.
Airborne debris can cause serious injury to the eyes. Wear protective eye-wear when drilling.

⊘ WARNING:

Make the correct connections.
Failure to make the proper connections may result in fire or product damage.

Use only in cars with A 12 volt negative ground.
(Check with your dealer if you are not sure.) Failure to do so may result in electric shock or injury due to electrical shorts.

Do not allow cables to become entangled in surround objects.
Arrange wiring and cables in compliance with the manual to prevent obstructions when driving.

Do not splice into electrical cables.
Never cut away cable insulation to supply power to other equipment. Doing so will exceed the current carrying capacity of the wire and result in fire or electric shock.

Do not damage the electrical wire when drilling holes.
When drilling holes in the console box for installation, takes precautions so as not to contact, damage the electrical wiring. Failure to take such precautions may result in fire.

Keep small objects such as batteries out of the reach of children.
Swallowing them may result in serious injury. If swallowed, consult a physician immediately.

⚠ PRECAUTIONS:

Be sure to disconnect the cable from the (-) battery post before installing this unit.
This will reduce any chance of damage to the unit in case of a short-circuit.

Be sure to connect the color coded leads according to the diagram.
Incorrect connections may cause the unit to malfunction or damage to the vehicle's electrical system.

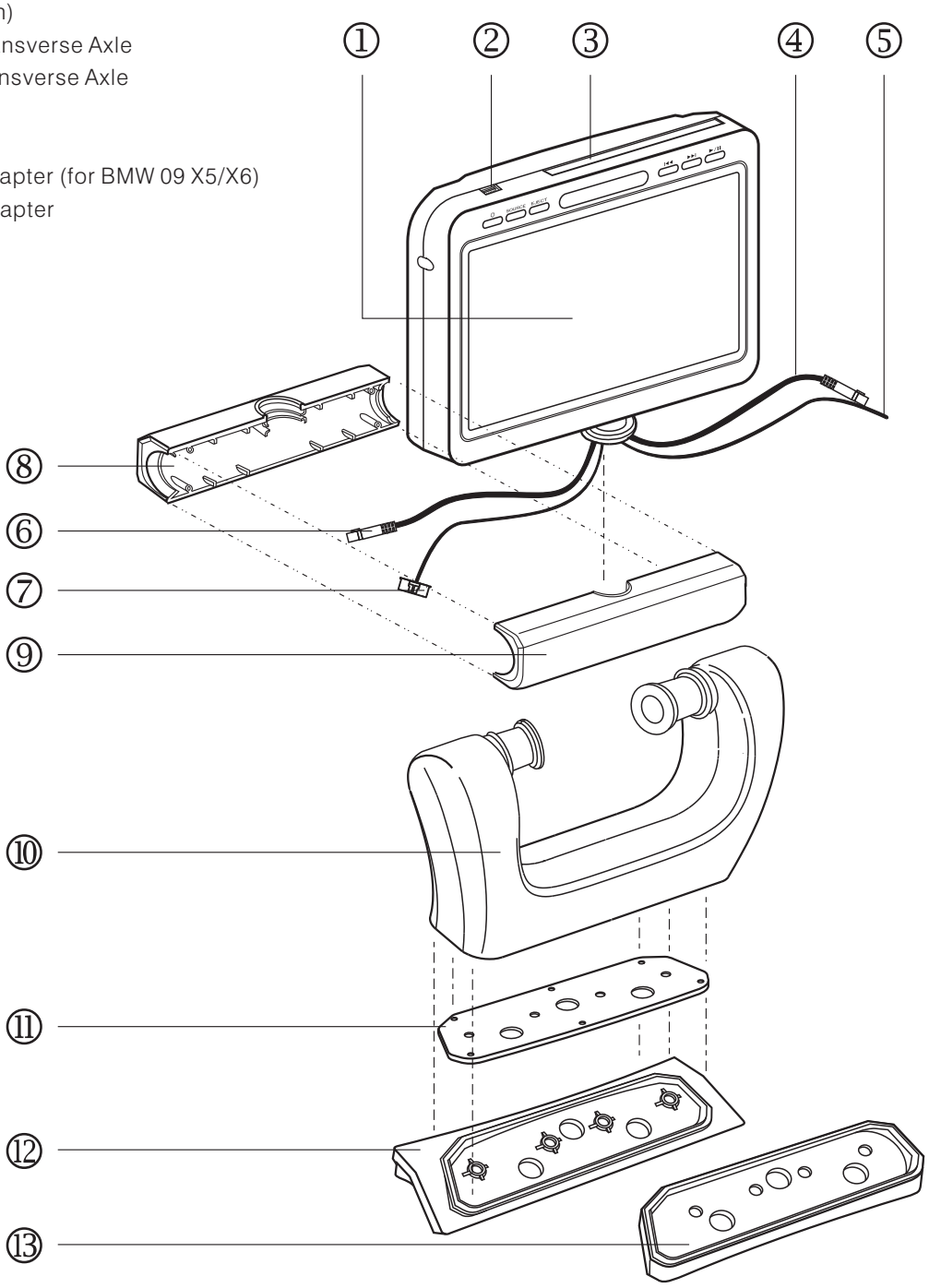
When making connections to the vehicle's electrical system, be aware of the factory installed components. Do not tap into these leads to provide power for this unit.
Failure to do so may result in damage to the unit or vehicle. When it doubt, please consult your dealer.

This unit uses female RCA-type jacks for connection to other units (e.g. amplifier) having RCA connectors.
You may need an adaptor to connect other units. If so, please contact your authorized dealer for assistance.

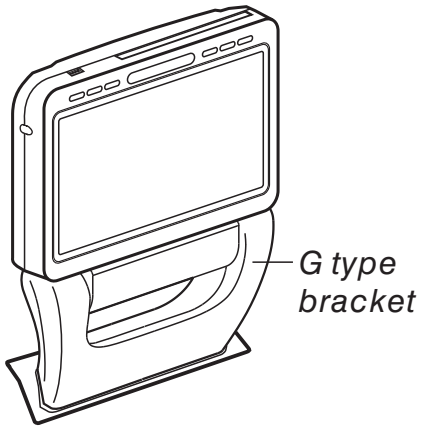
Installation and Connections

Parts Indication

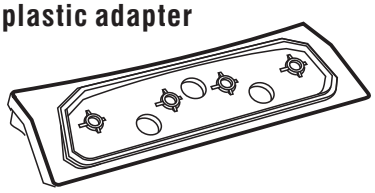
1. LCD Monitor
2. USB Port
3. Disc-In Solt
4. Signal Cable (Blue)
5. Antenna (Option)
6. Signal Cable (Black)
7. VGA Cable (Option)
8. Back Cover Of Transverse Axle
9. Front Cover Of Transverse Axle
10. Bracket Arm
11. Iron Plate
12. A Type Plastic Adapter (for BMW 09 X5/X6)
13. B Type Plastic Adapter



BMW'09 X5/X6

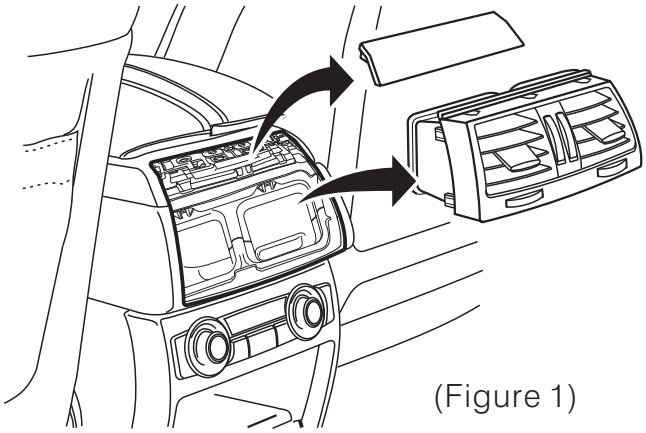


Using A type plastic adapter



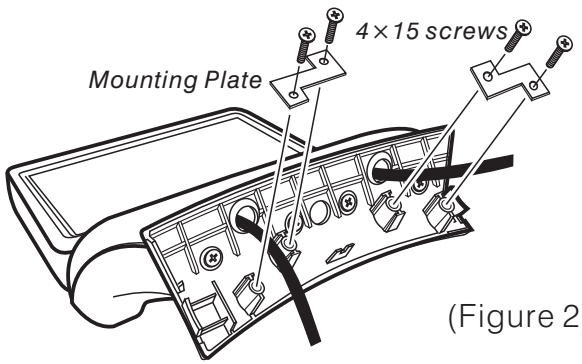
Installation Step

1 **Remove the original cover and rear air-conditioning outlet from the console box. (Figure 1)**



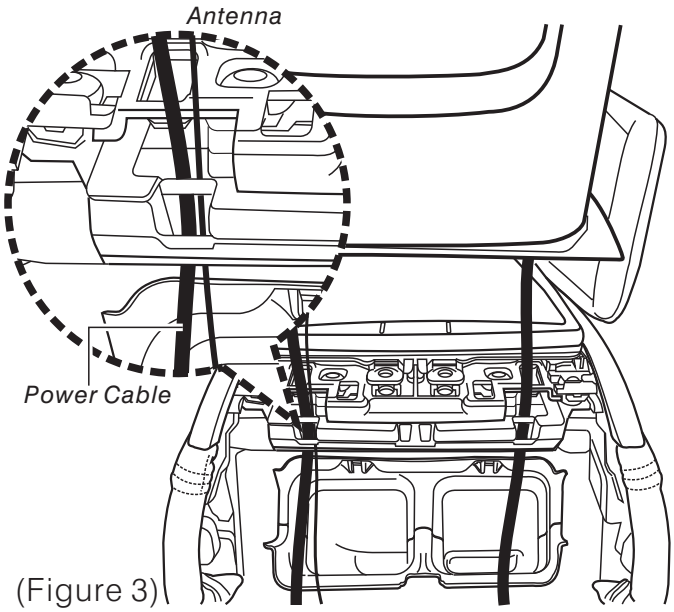
(Figure 1)

2 **Remove the mounting plates and 4x15 screws from the A adapter. (Figure 2)**



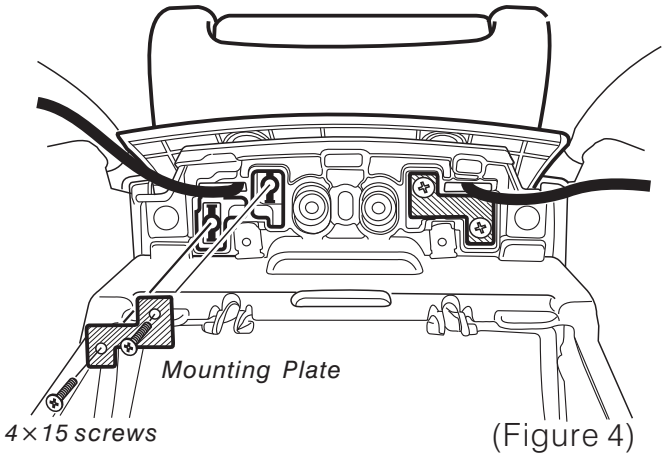
(Figure 2)

3 **Let the power cables and antenna pass through the holes separately. (Figure 3)**



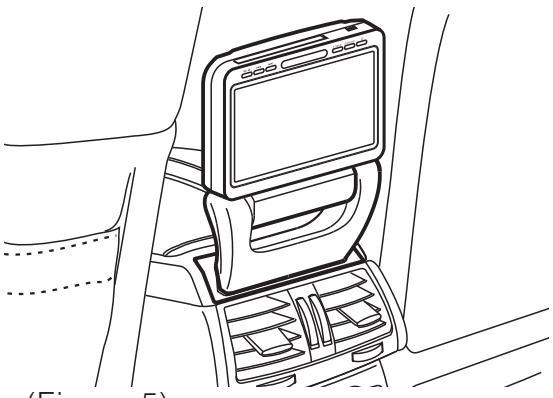
(Figure 3)

4 **Fix the unit and mounting plates by 4x15 screws. (Figure 4)**



(Figure 4)

5 **Finally, put the air-conditioning outlet back to the console box. (Figure 5)**

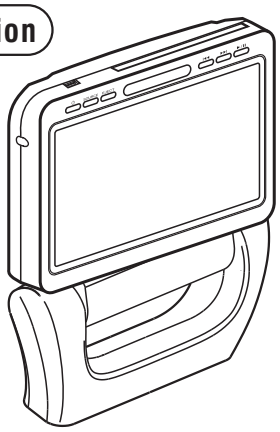


(Figure 5)

Installation and Connections

General Installation

Front Installation

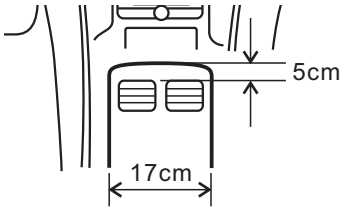


⚠ Attention:

>> Limitation:

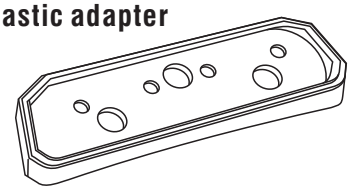
A.The width of the console box needs at least 17cm.

B.The height on the top of the air-conditioning outlet needs at least 5cm.



Installation Step

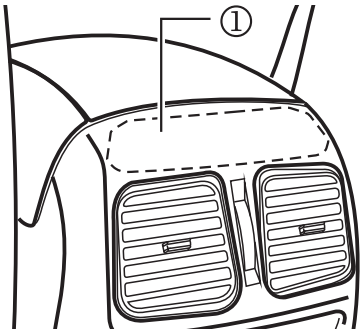
Using B type plastic adapter



1 Choosing suitable installation position. (Figure 1)

> ***Note:***
> Each console box has different appearance and structure, please determine the installation position by yourself.

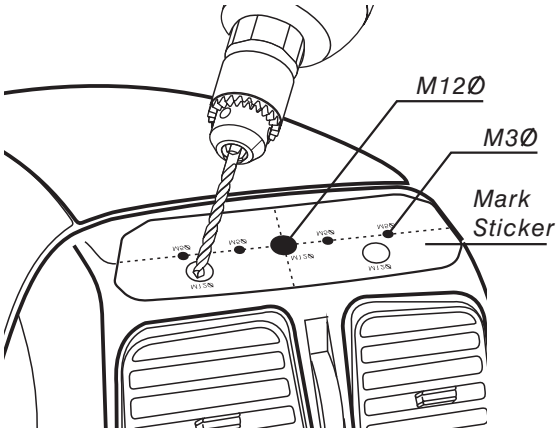
※Suitable position for Front Installation (Default)



(Figure 1)

2 Choosing suitable cable location

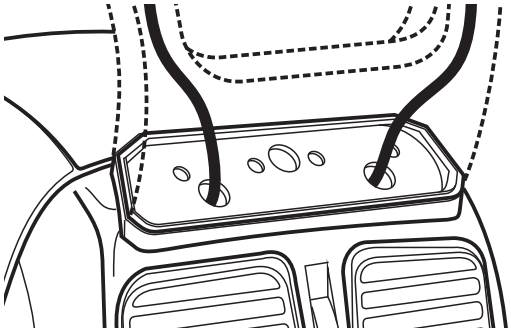
Using mark sticker sticks in the suitable installation position, and then starts drilling one to two M12Ø holes (Signal cable holes)and four M3Ø holes (Fixed holes) (Figure 2)



(Figure 2)

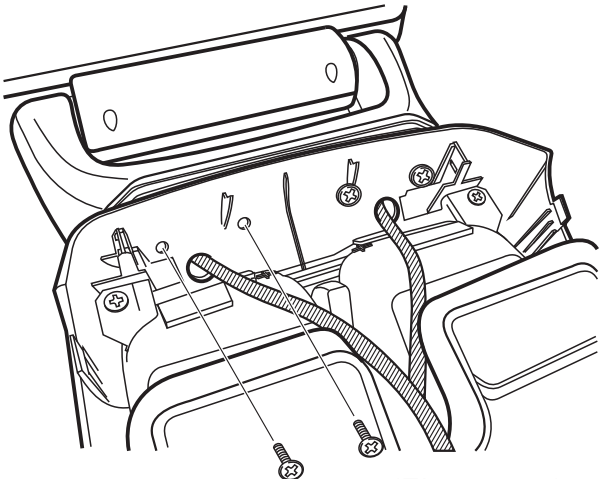
3 Fixing the plastic adapter and bracket.

Please let the signal cables through the B type plastic adapter and M12Ø holes. (Figure 3-1)



(Figure 3-1)

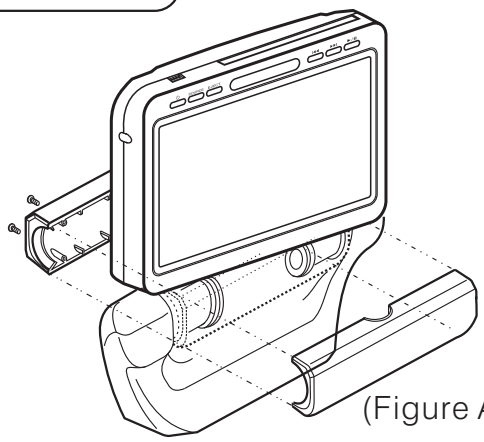
Using 5×25 screws to fix the bracket and console box. (Figure 3-2)



5×25 screws (Figure 3-2)

General Installation

Back Installation



(Figure A)

⚠ Attention:

>> Limitation:

A. The width of the console box needs at least 17cm.

B. If you choose back installation, please disassemble the transverse axle and swap over the front and back cover. (Figure A) (Note: Back cover has 4 screw holes.)

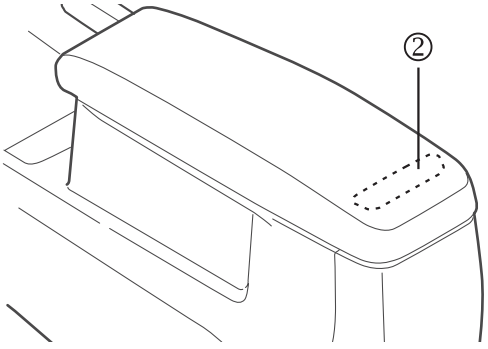
> ***Caution:***
> Please make sure to shift the transverse axle to ensure the monitor can be swiveling.

Installation Step

1 Choosing suitable installation position.

> ***Note:***
> (1)Each console box has different appearance and structure, please determine the installation position by yourself.
> (2)Please determine if it need to use B type plastic adapter.

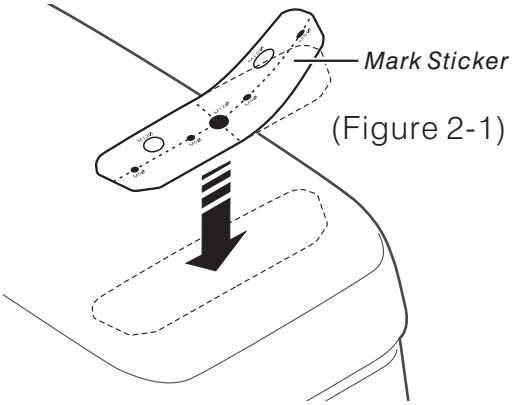
※Suitable position for Back Installation



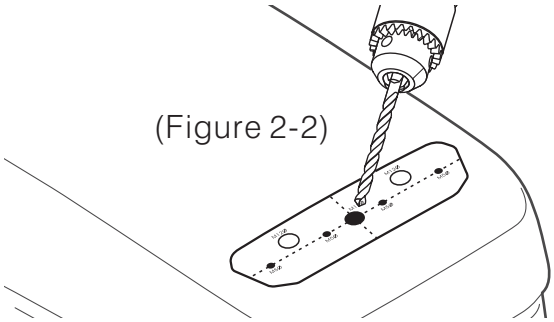
(Figure 1)

2 Choosing suitable cable location.

Using mark sticker sticks in the suitable installation position (Figure 2-1), and then starts drilling one or two M12Ø holes (Signal cable holes) and four M3Ø holes (Fixed holes) (Figure 2-2)



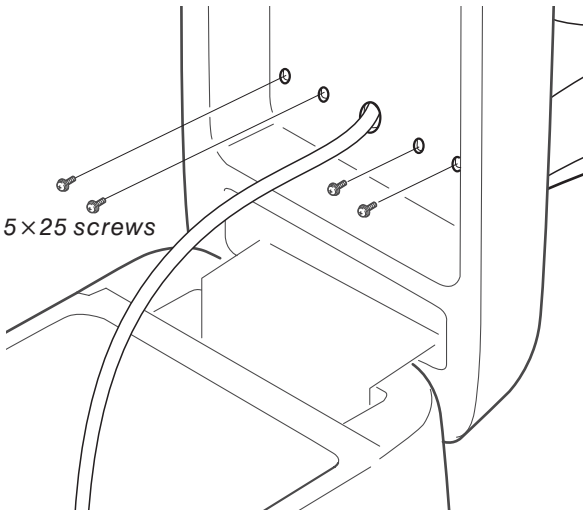
(Figure 2-1)



(Figure 2-2)

3 Fixing the plastic adapter and bracket.

Please let the signal cables through the B type plastic adapter and M12Ø holes. Then using 5×25 screws to fix the bracket and console box. (Figure 3)

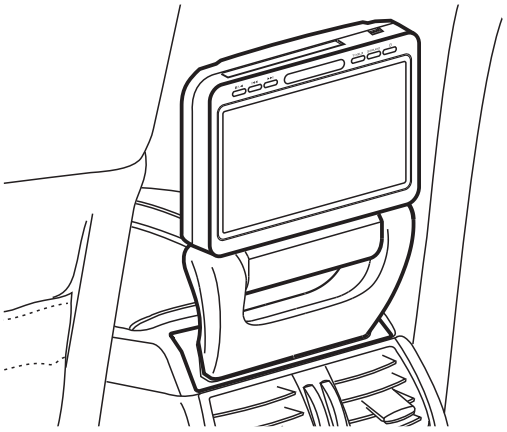


(Figure 3)

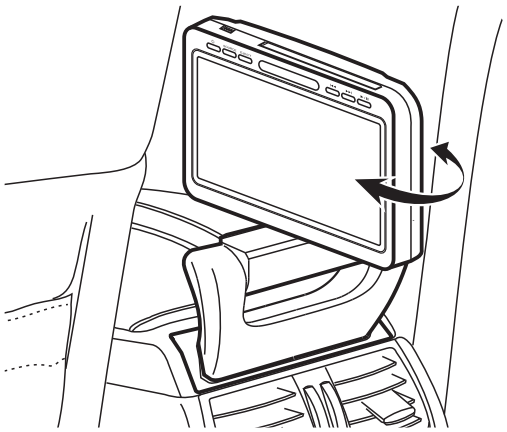
How to folding

Front Installation

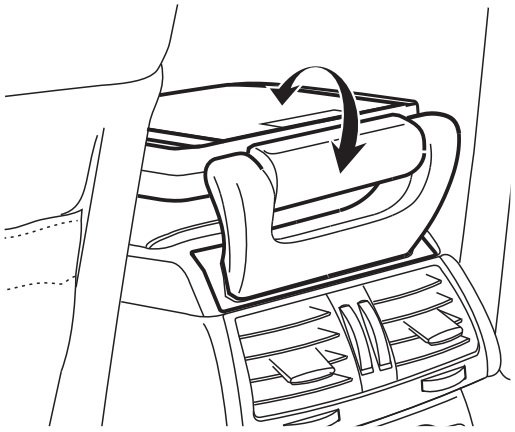
1. Normal usage.



2. Let the monitor turn 180 degrees clockwise.

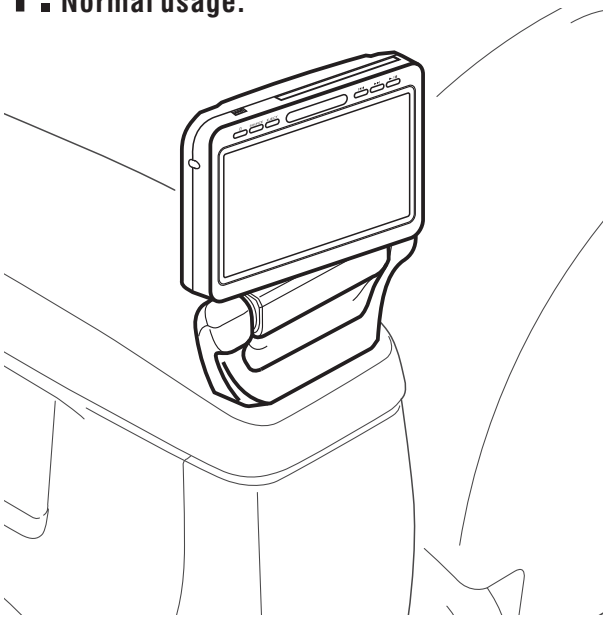


3. Folding back the monitor to complete folding.



Back Installation

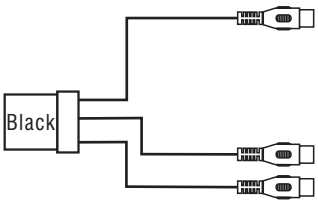
1. Normal usage.



2. Folding forward the monitor to complete folding.

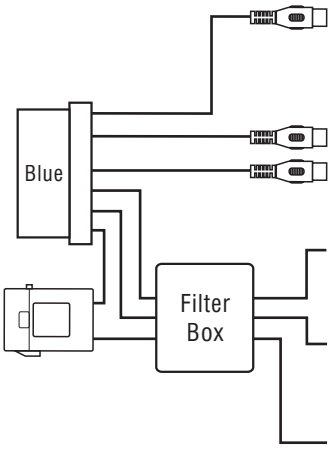
Connections

AV Connectors



Video Input Connector
This connector is used in combination with the video inputs of other video products (AV head out or TV Tuner).

Audio Input Connectors
These connectors are used in combination with a head unit or TV Tuner with audio output connectors.



Video Output Connector
This connector is used in combination with the video inputs of other video products (AV head unit or LCD monitor).

Audio Output Connectors
These connectors are used in combination with a head unit or LCD monitor with audio input connectors.

GND
Connect this line to the vehicle's GND line.

ACC
Connect this line to the vehicle's ACC line. (Switched 12V, ignition)

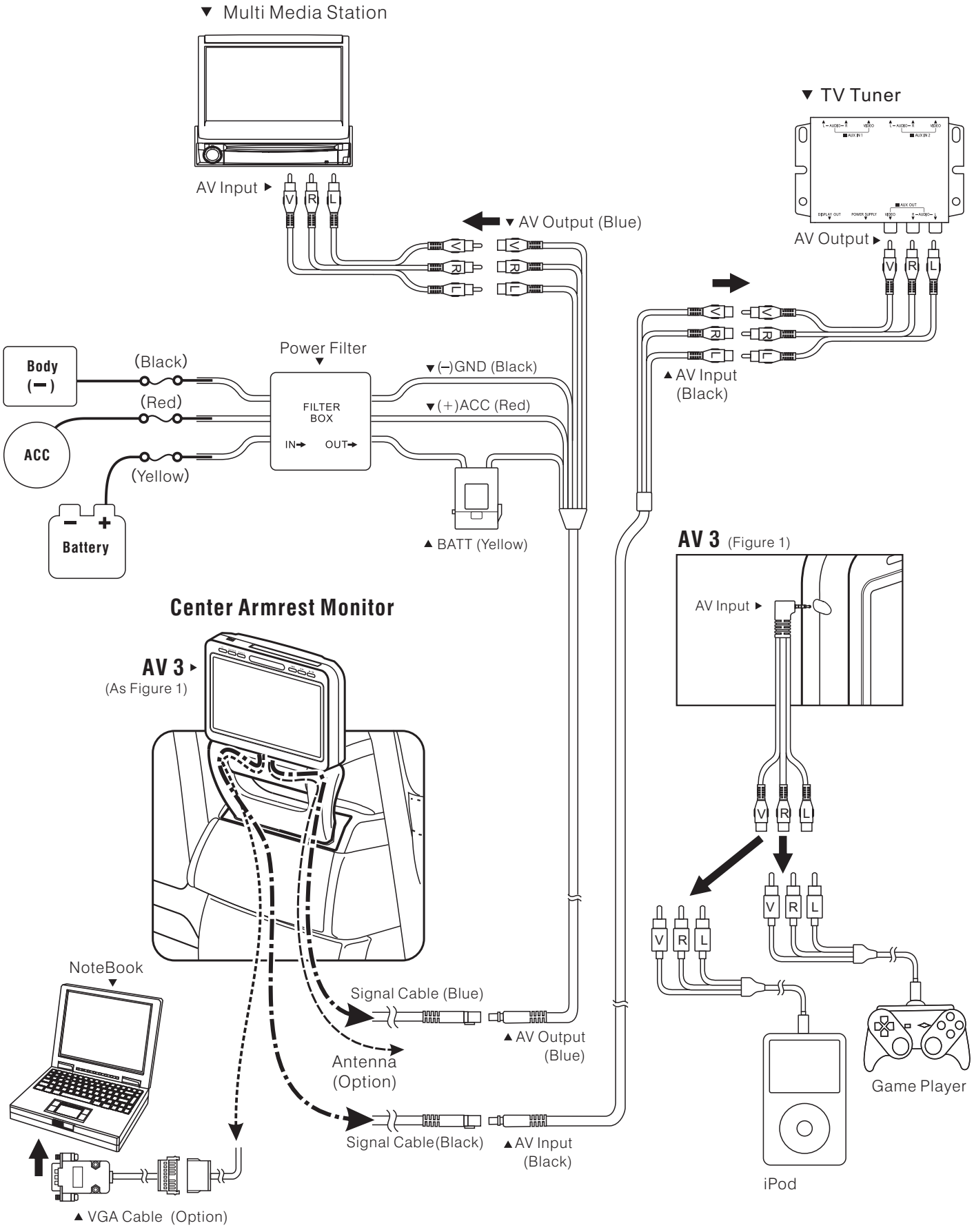
Battery Lead
Connect this lead to the positive (+) post of the vehicle's battery.

VGA Connector (Option)

VGA Input
This connector is used in combination with the notebook or other VGA devices.

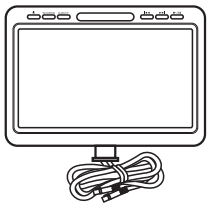
Installation and Connections

System Connections



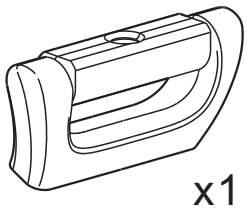
Accessories

■ Screen



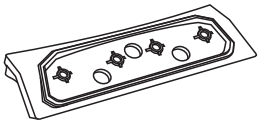
x1

■ Bracket Arm



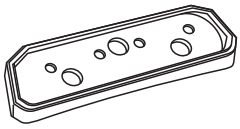
x1

■ A Type Plastic Adapter
(For BMW09 X5/X6)



x1

■ B Type Plastic Adapter

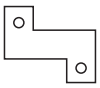


x1

■ Screws (F⊕4x15)
(For A Type Adapter)

x4

■ Mounting Plate
(For A Type Adapter)

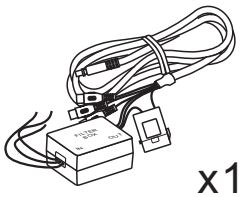


x2

■ Screws (F⊕5x25)

x4

■ Signal Cable (Blue)

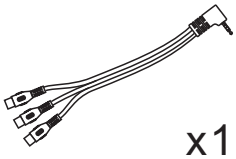


x1

■ Signal Cable (Black)

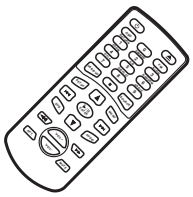
x1

■ AV3 Cable



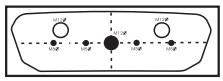
x1

■ Remote Control



x1

■ Mark Sticker

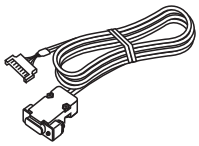


x1

■ User Manual

x1

■ VGA Cable (Option)



x1

General Specifications

DISPLAY SCREEN		
Size / Model	8" / TH080M	10.2" / TH102M
Width	177mm	225mm
Height	99mm	136mm
Aspect Ratio	16:9	16:9
Type	Transparent type TN Liquid Crystal Display	Transparent type TN Liquid Crystal Display
System	TFT-LCD, Active Matrix	TFT-LCD, Active Matrix
Number of Elements	800(W) × 480(H) × 3 1.152M pixels (VGA)	800(W) × 480(H) × 3 1.152M pixels (VGA)
Effective Number of Elements	99.9% or more	99.9% or more
Back Light	LED Lamp	Cold Cathode Fluorescent Lamp
Operating Voltage	10 - 16V DC (Typical: 12V)	10 - 16V DC (Typical: 12V)
Power Consumption	1.2A (MAX) 0.82A (TYP) 0.08A (Stand by)	1.4A (MAX) 1.2A (TYP) 0.08A (Stand by)
Video Input	1.0V p-p 75Ω	1.0V p-p 75Ω
Video Output	1.0V p-p 75Ω	1.0V p-p 75Ω
Audio Input	2.0V rms (MAX)	2.0V rms (MAX)
Audio Output	2.0V rms (MAX)	2.0V rms (MAX)
IR Transmitter	CH A: 2.3MHz / 2.8MHz CH B: 3.2MHz / 3.8MHz	CH A: 2.3MHz / 2.8MHz CH B: 3.2MHz / 3.8MHz
FM Modulator	87.7MHz - 88.9MHz Frequency (Wireless)	87.7MHz - 88.9MHz Frequency (Wireless)
Operating Temperature	+32˚F to +140˚F (0˚C to +60˚C)	+32˚F to +140˚F (0˚C to +60˚C)

MONITOR		
Size	8 inch	10.2 inch
Width	210mm	245mm
Depth	145mm	167mm
Height	35mm	35mm
Weight	0.97Kg	1.14Kg

UNIVERSAL BRACKET	
Bracket Type	G Type
Width	210mm
Heigh	120mm
Depth	48mm
Weight	0.30kg

Troubleshooting

CAUTION

If you encounter a problem, please turn the power off, then on again. If the unit is still no functioning normally, please review the items in the following checklist. This guide will help you isolate the problem if the unit is at fault. Otherwise, make sure the rest of your system is properly connected or consult your authorized dealer.

No function or display.

Vehicle's ignition off.
- If connected following the instructions, the unit will not operate with the vehicles ignition off.

Improper power lead connections.
- Check if the power lead is properly connected.

No fuse or blown fuse.
- Replace the fuse on the battery lead of the unit with the proper value.

Vehicle's battery is weak.
- Check the voltage of vehicle's battery.

Disc playback sound is wavering.

Moisture condensation in the disc unit.
- Allow enough time for the condensation to evaporate (about 1 hour).

Disc insertion is not possible.

A disc is already in the DVD player.
- Eject the disc and remove it.

The disc is being improperly inserted.
-Reinsert the disc following the instructions in the "Loading and Unloading Discs" section. (Page 7)

Unable to fast-forward or fast-reverse the disc.

The disc has been damaged.
- Eject the disc and discard it. Using a damaged disc in your unit can cause damage to the mechanism.

Disc playback sound skips due to vibration.

Improper mounting of the unit.
- Securely re-mount the unit.

The disc is very dirty.
- Clean the disc

The disc has scratches.
- Change the disc.

The pick-up lens is dirty.
-Do not use a commercial available lens cleaner disc. Consult your nearest dealer.

Disc playback sound skips without vibration.

Dirty or scratched disc.
- Clean the disc. Damaged disc should be replaced.

CD-R/CD-RW playback is not possible.

Close session (finalization) has not been performed.
- Perform finalization and attempt playback again.

Error displays

Mechanical error

- Press ⏏. After the error indication disappears, insert the disc again. If the above mentioned solution does not solve the problem, consult your nearest dealer.

Unit does not operate.

Monitor's power is not turned on.
- Turn on the monitor power.

Condensation
-Wait a while (about 1 hour) for the condensation to dry.

No picture is produced.

Monitor's mode is not switched to the mode you want to see.
- Switch to the mode you want to see.

Monitor's parking break cord is not connected.
- Connect the monitor parking brake cord and set the parking break. (For details, refer to the monitor instruction.)

Brightness control is set for minimum brightness control.
- Adjust the brightness.

Incorrect setting of the mode.
- Switch to the correct mode.
- Check the connection to the source unit.
- Check the power of the source unit.

Incorrect or open connection with the Monitor, AV interface unit.
- Check the connection and remedy.

Playback does not start.

Disc is loaded upside-down.
- Check the disc and load it with the label side facing upward.

The disc is dirty.
- Clean the disc.

A disc not able to playback with this unit is loaded.
- Check if the disc is able to be played back.

Parental lock is set.
- Cancel the parental lock or change the rating level.

Setup menu is displayed.

- Press SETUP to turn the menu off.

Information

Image stops sometimes.

Disc is scratched.
- Replace with an non-scratched disc.

Picture is unclear or noisy.

Disc is being fast-forwarded or fast-reversed.
- The picture may be unclear, but this is normal.

Vehicle's battery power is weak.
- Check the battery power and wiring. (The unit may malfunction if the battery power is under 11 volts with a load applied.)

Monitor's fluorescent tube is worn out.
- Replace the monitor fluorescent tube.

Image stops sometimes.

Disc is scratched.
- Replace with a non-scratched disc.

Picture color is poor.

Brightness/Color/Tint/Contrast/Sharpness controls are not set to the proper positions.
- Check each control.

The remote control does not work.

IR Received range is not enough.
- The remote control can be used within 2 meters.

Something interfere the IR transmitter.
- Please remove any possible objects.

Battery is exhausted.
- Replace the remote control battery.

Picture was very dark when starting the machine.

The temperature is too low.
- Wait a while (about 1 hour) for the warm up. After that, the monitor will return to the normal condition.

Spots or dotted lines-stripes appear.

The LCD panel is manufactured using an extremely high precision manufacturing technology.
- Its effective pixel ratio is over 99.99%. This means that 0.01% of the pixels could be either always ON or OFF.

Caused by neon signs, high-voltage power lines, CB transmitter, other vehicle's ignition plugs, etc.
- Change the location of your vehicle.

⚠ CAUTION

Due to continuous product improvement, specifications and design are subject to change without notice.

Warranty

⚠ CAUTION :

- Please make sure to read the user manual carefully.
- Please make sure to ask for the authentication seal from the retailing shop on the warranty card for certification and keep properly in order to guaranteeing your rights.
- **Please make sure the units have serial number before you send it back for repairing. If the units didn't have serial number or miss it, we will unable to offer warranty for the units.**

Warranty period:

ONE (1) YEAR from the date of original retail purchase.

Within the warranty period:

- Please comply with instruction of warranty card and inquire your retailing shop about maintenance.
- If the unit breaks down under normal usage, we will repair the units free of charge. Furthermore, we will be responsible for the two-way freightage fees.
- If the unit breaks down because external force, such as, man-made damage, hit, splash and so on, we will charge the component fees and technologic fees from customers. Furthermore, the customers should responsible for the two-way freightage fees.

Exceed the warranty period:

- If the product breaks down, please inquire your retailing shop.
- If the unit breaks down because external force or not external force, we will charge the component fees and technologic fees from customers. Furthermore, the customers should be responsible for the two-way freightage fees.
- In order to maintain the function of the product, we will charge the maintenance cost in accordance with the state of customer's products.
- **The warranty period of the mending parts is 2 years.** The mending parts mean the essential parts for keeping product operation.

About the repairing fees :

>>Technologic fees :

We will charge the repairing fees in accordance with the state of customer's products after repairing.
The repairing fees will include technical staff fees, technologic educational fees, test equipment fees of device and general administration fees and so on.

>>Components fees :

The customers will be responsible for the components fees and material fees of the defective product.

>>Freightage fees:

If the product breaks down because external force, such as man-made damage, hit, splash and so on, the customers should responsible for all freightage fees.

Other :

When sending the product to repair, please pack the product perfectly, so as to prevent damage again on the way of transport. Thanks.